Claims

1. A method of doing business including the steps of:

receiving at least one job to be processed from at least one customer;

estimating a time for completion of processing for said at least one job to be processed;

placing each of said at least one job to be processed in a queue of jobs to be processed;

sorting said queue of jobs to be processed;

configuring dynamically the size of at least one cluster of processing resources from a pool of processing resources responsive to at least one attribute of said job to be processed;

processing said at least one job to be processed from said queue of jobs to be processed by assigning said at least one job to be processed to said at least one cluster of processing resources; and

making a result of said processing of said at least one job to be processed available to said at least one customer.

2. A method of claim 1, wherein said receiving further includes at least one attribute specific to said at least one job to be processed including at least one of the following attributes: (1) priority of processing, (2) type of processing, and (3) a tolerance time.

3. A method as in claim 2, wherein said step of sorting said queue of jobs to be processed includes consideration of said request for priority of processing of said at least one job to be processed.

4. A method of claim 2, wherein said tolerance time includes a time for completion acceptable to said at least one customer that is later in time than the estimated time for completion.

5. A method as in claim 4, wherein said step of sorting said queue of jobs to be processed includes consideration of said tolerance time attributed to said at least one job to be processed.

6. A method as in claim 1, wherein the step of estimating a time for completion of processing of said at least one job to be processed further includes the step of confirming said time for completion of processing with said at least one customer.

7. A method as in claim 1 wherein said step of configuring dynamically a pool of processing resources into at least one cluster of processing resources responsive to at least one attribute of said at least job to be processed further includes the steps of:

saving said cluster of processing resources from said pool of processing resources as they become available such that they are earmarked for creating a specific cluster to be used for processing said at least one job to be processed;

saving a configuration file on said cluster of processing resources; and

rebooting said cluster of processing resources to configure dynamically said cluster of processing resources for processing of said at least one job to be processed.

8. A method as in claim 1, wherein said making a result of said processing of said at least one job to be processed available to said at least one customer further includes charging a fee for said result.

9. A method as in claim 8, wherein said fee is based on said time for completion of processing for said at least one job to be processed.

10. An apparatus including

means for receiving at least one job to be processed from at least one customer;

means for estimating a time for completion of processing for said at least one job to be processed;

means for placing each of said at least one job to be processed in a queue of jobs to be processed;

means for sorting said queue of jobs to be processed;

means for configuring dynamically the size of at least one cluster of processing resources from a pool of processing resources responsive to at least one attribute of said job to be processed;

means for processing said at least one job to be processed from said queue of jobs to be processed by assigning said at least one job to be processed to said at least one cluster of processing resources; and

means for making a result of said processing of said at least one job to be processed available to said at least one customer.

11. An apparatus of claim 10, wherein said means for receiving further includes at least one attribute specific to said at least one job to be processed including at least one of the following attributes: (1) priority of processing, (2) type of processing, and (3) a tolerance time.

12. An apparatus as in claim 11 wherein said means for sorting said queue of jobs to be processed includes consideration of said request for priority of processing of said at least one job to be processed.

13. An apparatus of claim 11, wherein said tolerance time includes a time for completion acceptable to said at least one customer that is later in time than the estimated time for completion.

14. An apparatus as in claim 13, wherein means for sorting said queue of jobs to be processed includes consideration of said tolerance time attributed to said at least one job to be processed.

15. An apparatus as in claim 10, wherein said means for estimating a time for completion of processing of said at least one job to be processed further includes means for confirming said time for completion of processing with said at least one customer.

16. An apparatus as in claim 10 wherein said means for configuring dynamically a pool of processing resources into at least one cluster of processing resources responsive to at least one attribute of said job to be processed further includes:

means for saving said cluster of processing resources from said pool of processing resources as they become available such that they are earmarked for creating a specific cluster to be used for processing said job to be processed;

means for saving a configuration file on said cluster of processing resources; and

means for rebooting said cluster of processing resources to configure dynamically said cluster of processing resources for processing of said at least one job to be processed.

17. An apparatus as in claim 10, wherein said means for making a result of said processing of said at least one job to be processed available to said at least one customer further includes means for charging a fee for said result.

18. An apparatus as in claim 17, wherein said fee is based on said time for completion of processing for said at least one job to be processed.

19. A processor readable medium

said medium encoded with a data structure stored to a set of processing nodes and capable upon reboot of said set of processing nodes of configuring said set of processing nodes into a processing collective.

20. A system including

a request receiver element configured to receive at least one job to be processed from at least one customer, said request receiver element in communication with a pool of processing resources;

a queue of jobs to be processed and disposed to being sorted according to a priority assigned to each of said at least one job to be processed, said queue of jobs to be processed being in communication with said pool of processing resources; and

a pool of processing resources configured to run at least one job to be processed, said pool of processing resources and disposed to being dynamically divided into clusters of processing resources which may run in parallel.

21. A system as in claim 20, wherein said receiver element further includes at least one attribute specific to said at least one job to be processed including at least one of the following attributes: (1) priority of processing, (2) type of processing, and (3) a tolerance time.

22. A system as in claim 21, wherein said queue of jobs to be processed may be sorted based on consideration of said request for priority of processing of said at least one job to be processed.

23. A system as in claim 21, wherein said tolerance time includes a time later than an estimated time for completion of said at least one job to be processed.

24. A system as in claim 23, wherein said queue of jobs to be processed are sorted based on consideration of said tolerance time attributed to said at least one job to be processed.

25. A system as in claim 20, wherein said pool of processing resources are disposed to being dynamically divided into clusters of processing resources which may run

in parallel is responsive to at least one attribute of said at least one job to be processed, and further include

a procuring element disposed to collect processing resources from said pool of processing resources as they become available such that they are earmarked for creating a specific cluster to be used for processing said at least one job to be processed;

an initializing element disposed to save a configuration file on said cluster of processing resources;

a rebooting element disposed to soft reboot said cluster of processing resources such that said cluster of processing resources is dynamically created;

an executing element configured to run said at least one job to be processed on said cluster of programming resources; and

a transfer element disposed to deliver a result of said run of said at least one job to be processed to said at least one customer.

26. A system as in claim 25, wherein a billing element charges said at least one customer a fee for said delivery of said result.

27. A system as in claim 26, wherein said billing element determines said fee based on at least one of said attributes attributed to said at least one job to be processed.

28. A memory storing information including instructions executable by a processor to perform a method for dynamically configuring a pool of processing resources into clusters of processing resources which may be run in parallel, said instructions including

determining a number of said processing resources to be clustered;

identifying said processing resources to be clustered as they become available;

forcing said processing resources, as identified, to initialize forming a cluster; and

processing a job to completion such that a result is generated and delivered to a customer.